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## (54) FILTERING DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To prevent clogging in a hollow fiber membrane type filtering device.

**SOLUTION:** A housing case 11 is divided by a funnel shaped bottom face 12a into two parts consisting of a filtering chamber 12 in an upper side and a deposition recovering chamber 13 in a lower side. A liquid W1 to be filtered is fed to the filtering chamber 12 in which a hollow fiber membrane module 14 is arranged and filtered and at the same time a turbulent flow is generated in the filtering chamber 12 due to the fed liquid to be filtered, each hollow fiber membrane 14a swings and depositions 30 adhered to the surface of the hollow fiber membrane are separated and removed. The depositions 30 removed are directed through an opening of lower end of the bottom face 12a into the deposition recovering chamber 13 including a quiet flow of the liquid W1 to be filtered. The depositions 30 directed into the deposition recovering chamber 13 are never returned to the filtering chamber 12 and the depositions 30 once removed are never re-deposited on the hollow fiber membrane module 14.

